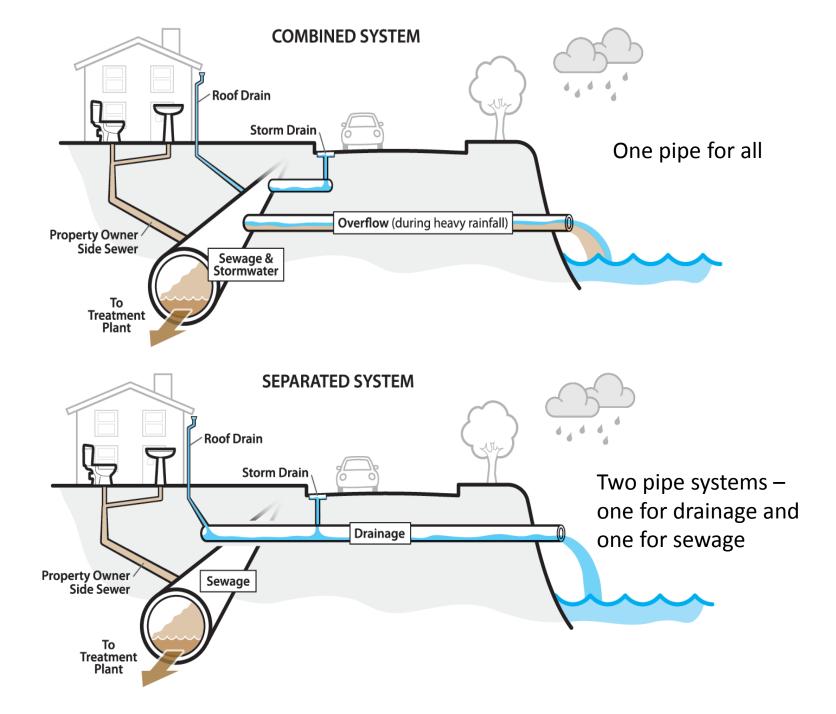
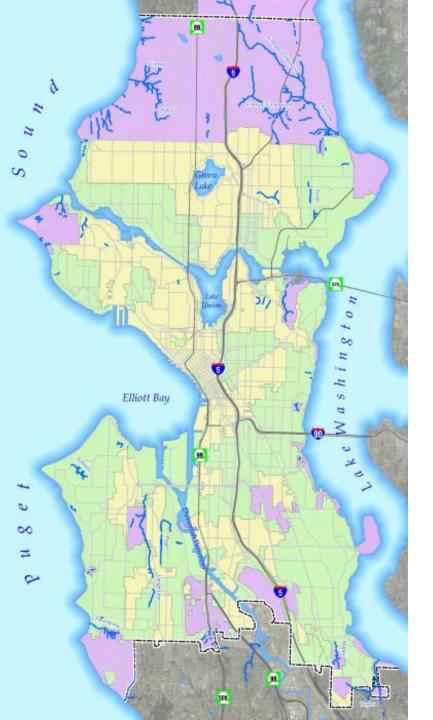
SPU's Drainage and Wastewater Integrated System Planning Overview

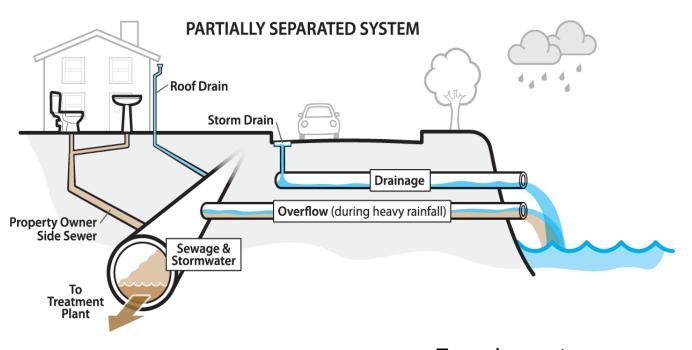
Leslie Webster,

DWW System Planning Program Manager

January 2018







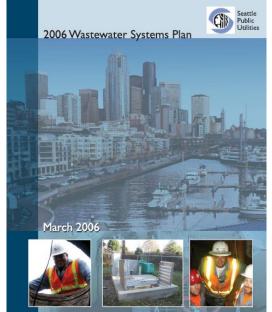
Two pipe systems – one for <u>some</u> drainage and one for sewage

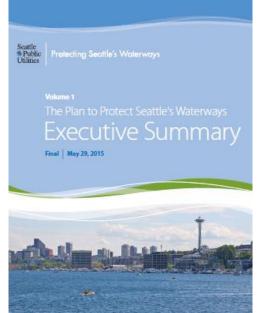
Elliott Bay

Past DWW System Planning Efforts

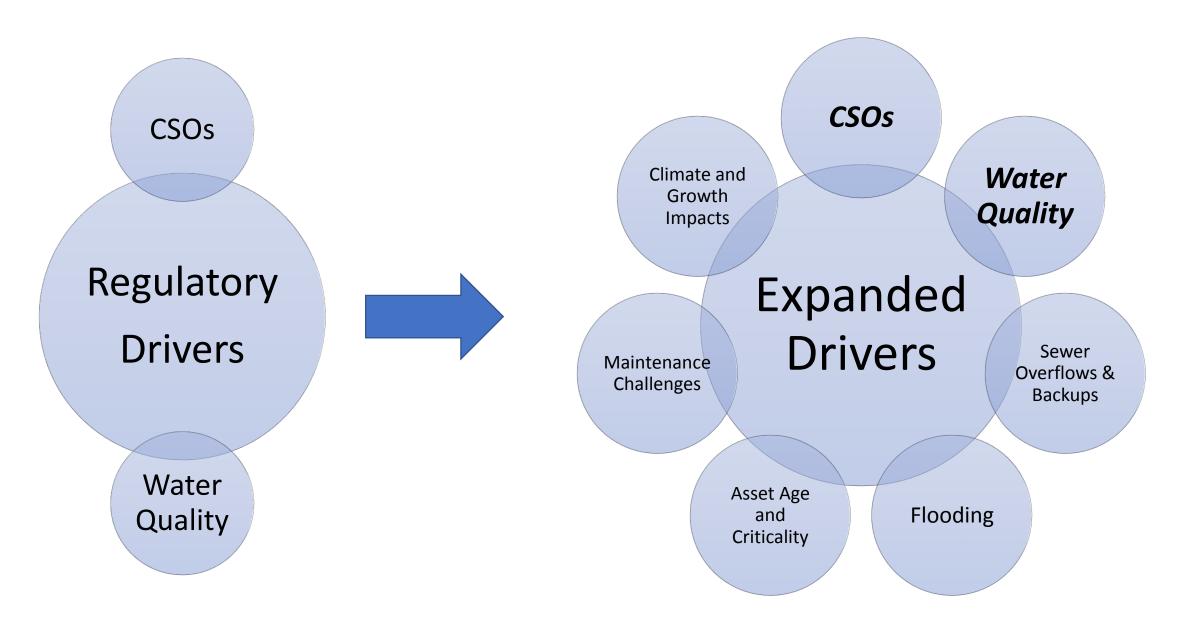
- 2004 Comprehensive Drainage Plan
- 2006 Wastewater Systems Plan
- 2015 Plan to Protect Seattle's Waterways (Integrating CSO & Water Quality)







DWW Integrated Planning – Expanded Drivers

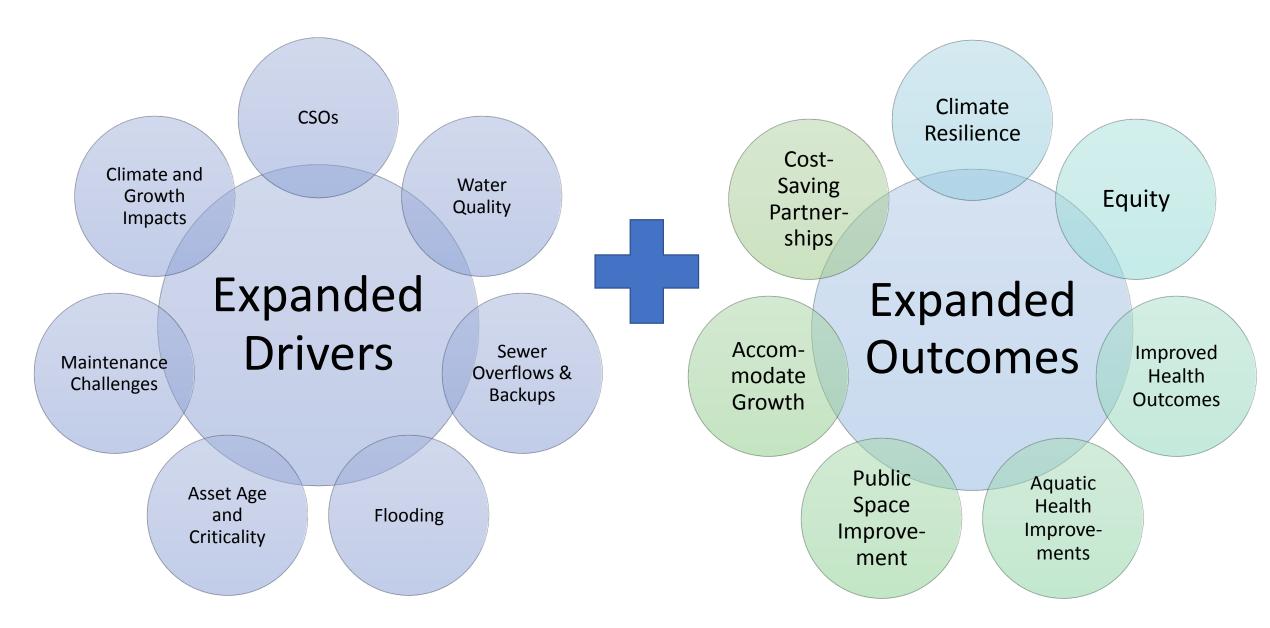


DWW Integrated Planning – Expanded Outcomes

SPU: a Community-Centered Utility

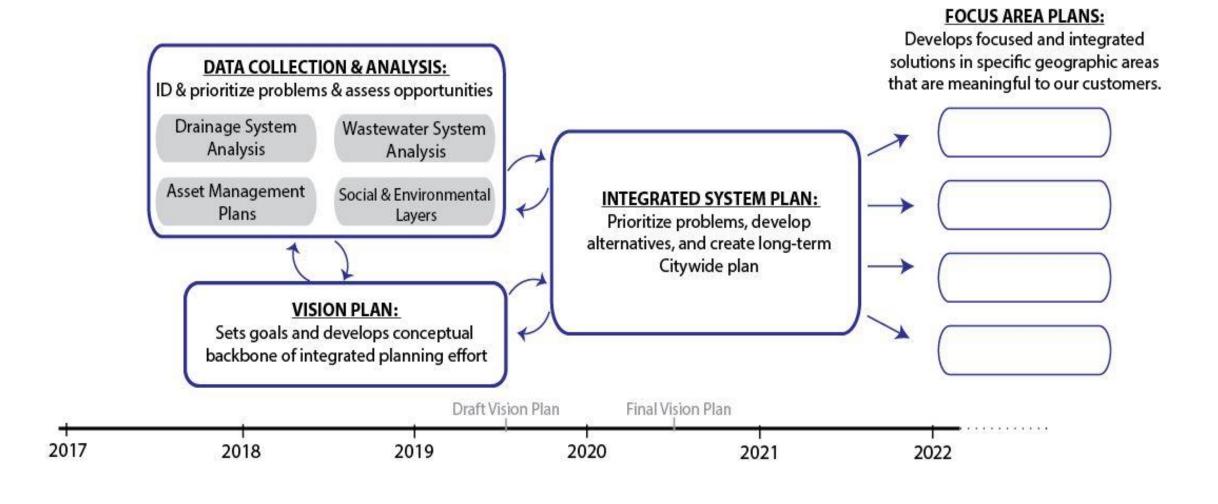
- Achieving excellence in core service delivery
- Increasing affordability and accountability
- Improving investment value
- Enhancing public health and environment
- Ensuring service and racial equity and inclusion
- Expanding impact through strong partnerships

DWW Integrated Planning – Expanding Outcomes

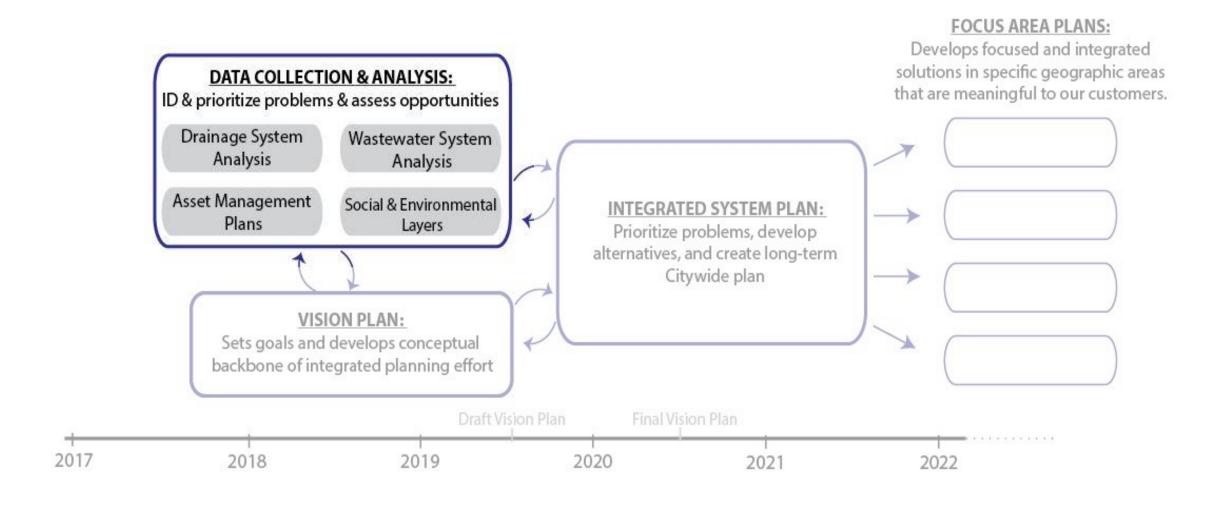


DWW Integrated System Planning - Overview

Goal: Direct investment in Seattle's drainage and wastewater systems while providing the greatest community value through multiple benefits



Data Collection and Analysis



Data Collection and Analysis

Drainage System Analysis

- Flooding
- Water Quality and Creek Flow
- Fish Passage Barriers
- Floodplain
 Reconnection
- Aquatic Habitat
- Landslide Mitigation
- Surfacing Groundwater

Wastewater System Analysis

 Sewer Backups and Overflows

Social and Environmental Systems Analysis

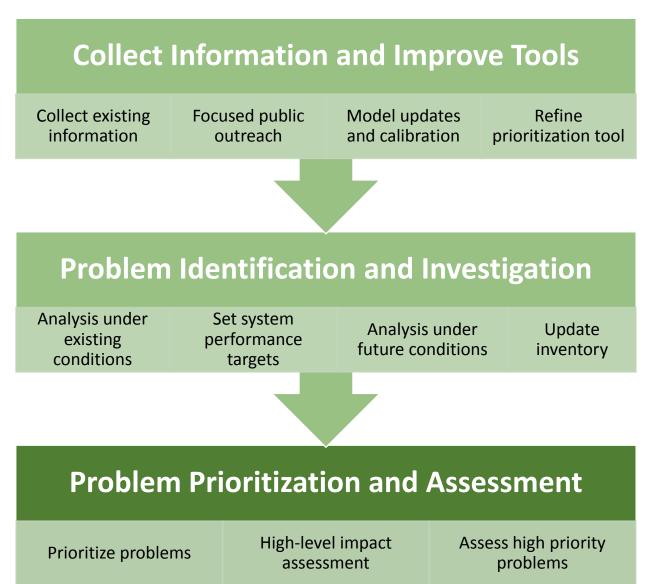
- Racial Equity and Health
- Racial Equity and Wealth
- Environmental Characteristics
- Parks and Open Space Needs
- Growth and Development
- PartnershipOpportunities

Asset Management Plans

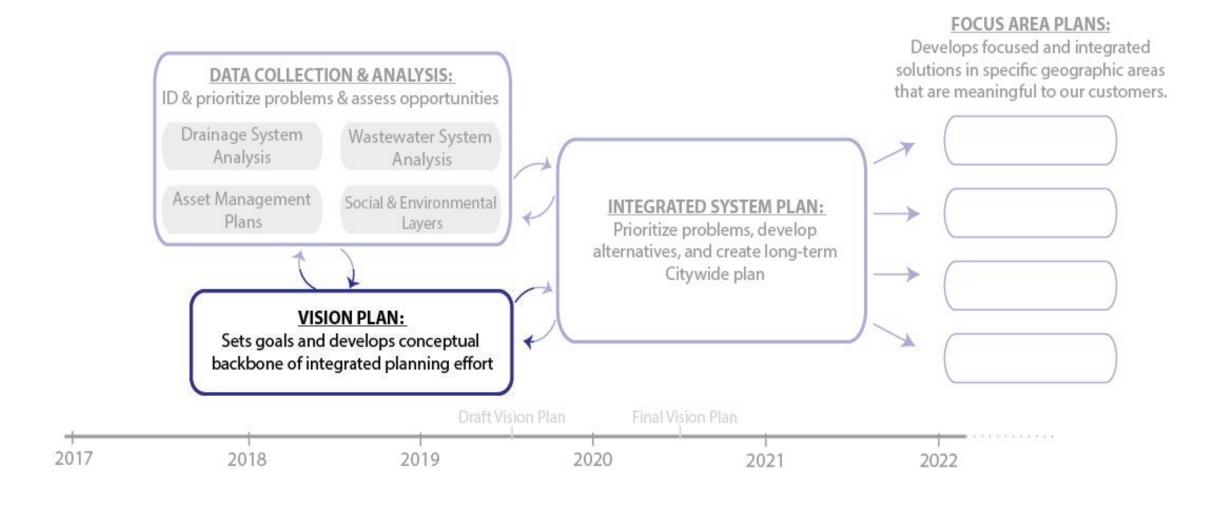
- Asset Condition & Criticality
- R&R Strategies
- O&M Strategies

- Climate Change Impacts
- Development Impacts
- System Layout Challenges

Analysis Approach: Flooding and WW Capacity



DWW "Vision" Plan



DWW "Vision" Plan

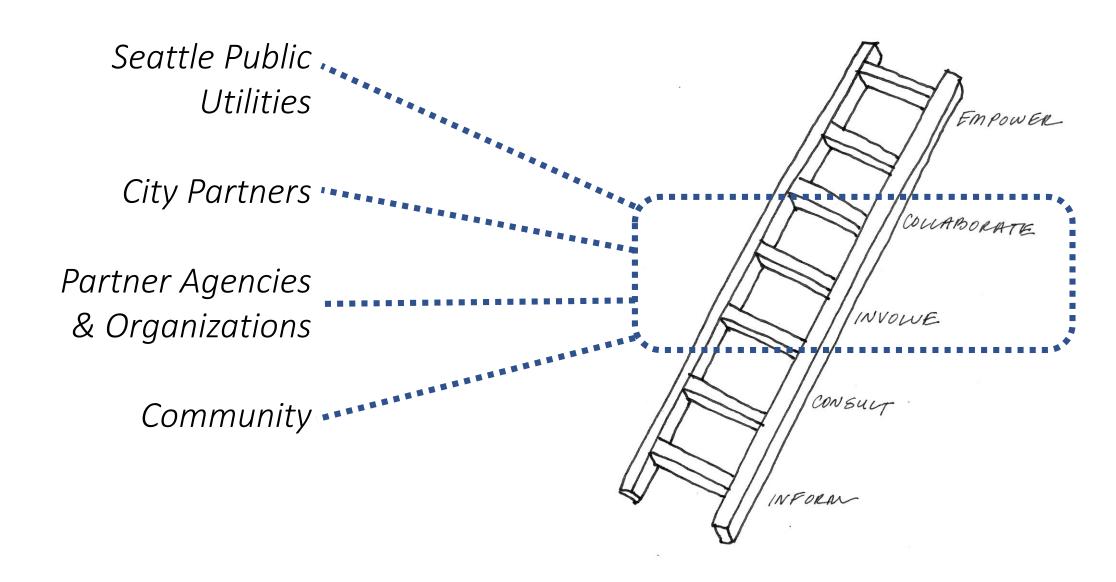
Sets goals and develops the conceptual backbone of the planning effort

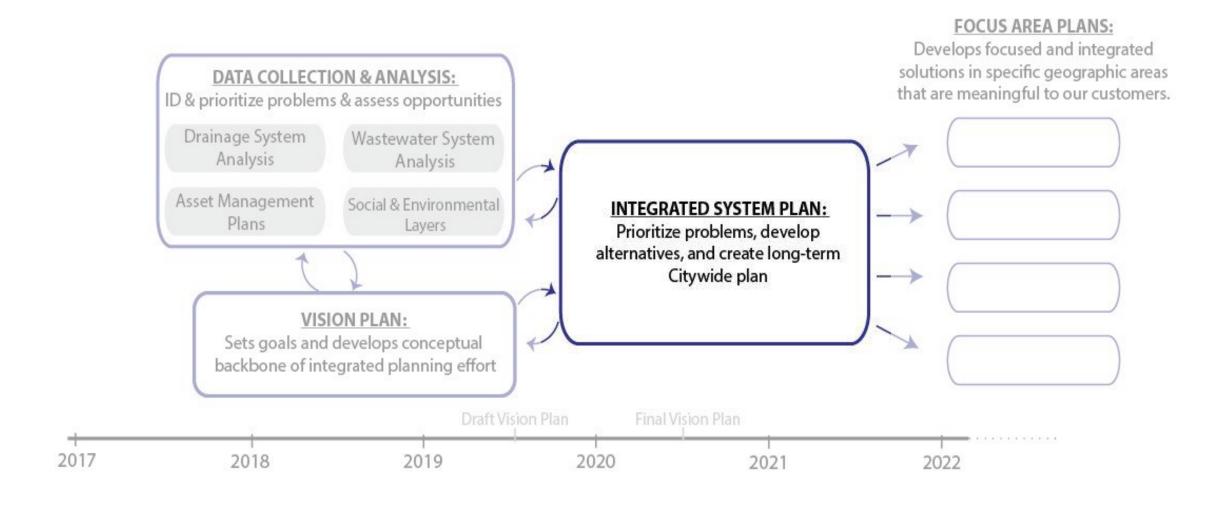
SPU: a Community-Centered Utility

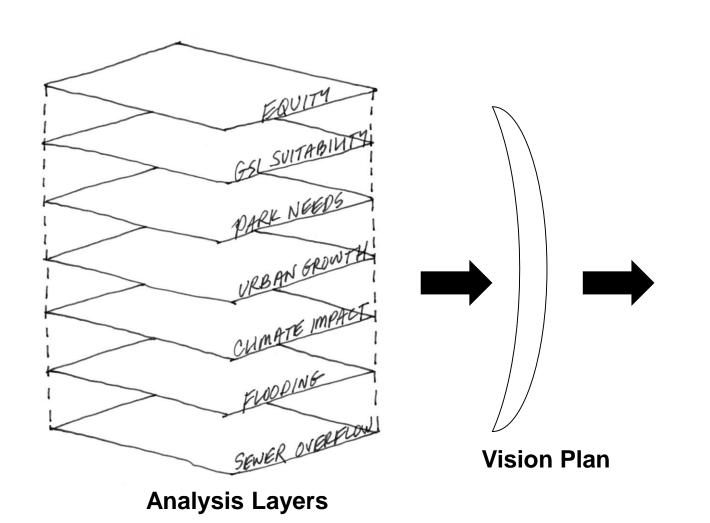
- Achieving excellence in core service delivery
- Increasing affordability and accountability
- Improving investment value
- Enhancing public health and environment
- Ensuring service and racial equity and inclusion
- Expanding impact through strong partnerships

Vision, goals, objectives, guiding principles, and measures of success specific to DWW LOB to guide long-range planning and investment

DWW "Vision" Plan







Develop and assess
capital and
programmatic solutions
to high-priority
problems that deliver
multiple benefits.

Cross Issue Prioritization

 Prioritize opportunities and challenges across problem types

Develop Alternatives

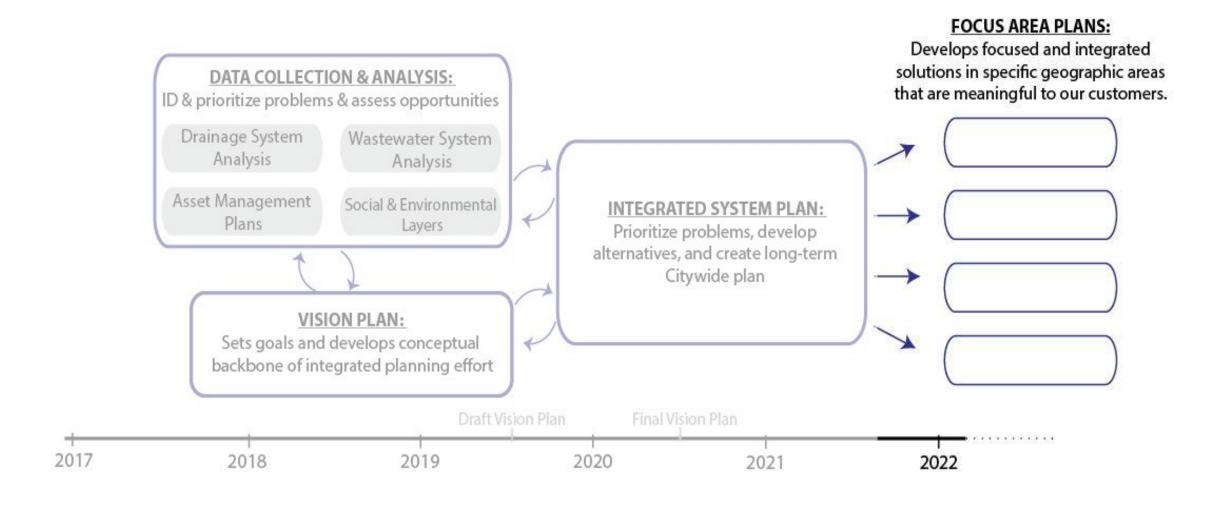
 Develop citywide alternatives that solve highpriority problems with multi-benefit solutions

Alternative Evaluation

 Evaluate alternatives using the Triple Bottom Line – accounting for social, environmental and financial costs and benefits. Select a Preferred
Alternative and
Develop an
Implementation Plan

DWW Ranking Criteria

		Weights
Public Health, Safety and Environmental Impacts		43
Location of impacts	Polluted discharges to receiving water bodies	14
	High flows to creeks and wetlands	8
	Discharges to streets or properties	7
Severity of Impacts		8
Frequency of Impacts		7
System Reliability/Risk		35
Criticality		13
Condition		13
Operational efficiency		8
Opportunities		22
Service Equity		6
Opportunity to reduce costs		5
Time-sensitive coordination		6
Multiple benefits		6
Requirements		Y/N
Regulatory compliance		
Mandates, legal agreements		



Future Points of Connection

- Upcoming Request for Information (RFI)
- Input on Public-Facing Materials:
 - Website
 - Project Summary pages
- Possible 2017 Presentations on:
 - Stakeholder Engagement Approach
 - Partnership Analysis
- Participation as Stakeholders in 2018